Neuroscience Study Program 2022/2023

last update: January 6, 2023

Block A (M.Neuro.11, M.Neuro.12, M.Neuro.16, M.Neuro.21, M.Neuro.23, M.Neuro.31): Neuroanatomy and Development

W 1	Mon 03 Oct	Tue 04 Oct	Wed 05 Oct	Thu 06 Oct	Fri 07 Oct
9:00-10:30	**Holiday (German Unification Day)**	L: Human CNS I (Reuss) – ENI	L: Human CNS II (Reuss) – ENI	L: Hippocampus/ Limbic System (Möck) – ENI	T: Human CNS (Reuss) – online via zoom
10:45-12:15		L: Histology & Cytology (Dresbach) – ENI	L: Sensory Systems (Möck) – ENI	T: Histology & Cytology (Dresbach) – ENI	T & Short Test: Sensory Systems/ Hippocampus / Limbic System (Möck) – online via zoom
14:00-18:00		L/C: Human Brain (Reuss) – Anatomy, 0.204 **Group A/B**	L/C: Human Brain (Reuss) – Anatomy, 0.204 **Group B/C**	**13:00-17:00** L/C: Neurohistology (Chao/Palicz) – meeting point: Anatomy entrance hall	**13:00-17:00** L/C: Intro Histology & Cytology (Chao/Palicz) – meeting point: Anatomy entrance hall

W 2	Mon 10 Oct	Tue 11 Oct	Wed 12 Oct	Thu 13 Oct	Fri 14 Oct
9:00-10:30	L: Motor Systems I/ Spinal Cord (Witte) – ENI	L: Motor Systems II/ Cerebellum (Witte) – ENI	L: Autonomic System/ Brain Stem (Staiger) – ENI	T: Autonomic System/ Brain Stem (Staiger) – ENI	T & Short Test: Autonomic System & Motor Systems (Staiger/Witte) – ENI
10:45-12:15	Presentations Research Groups – ENI 10:40 Huet (Moser) 11:00 Fernández-Busnadiego 11:20 Schlüter	**10:45-12:30** L: Introduction to Microscopy Techniques (Enderlein) – ENI	**13:00 – 14:00** L/C: Introduction to mouse brain anatomy (Bouter) – ENI	SELF STUDY	Presentations Research Groups – ENI 10:40-12:20 DPZ groups (Gail, Kagan, Scherberger, Schwiedrzik)
14:00-18:00	Presentation of MSc/PhD projects class 2021 – ENI	**14:00-15:45** L: Introduction to Microscopy Techniques (Enderlein) – ENI	C: Introduction to mouse brain anatomy (Bouter) – ENI **Group C**	C: Introduction to mouse brain anatomy (Bouter) – ENI **Group A**	C: Introduction to mouse brain anatomy (Bouter) – ENI **Group B**
		16:00-17:45 L: Introduction to Microscopy Techniques (Enderlein) – ENI	C: Sensory Systems / Electrophysiology (Möck & staff) – Neuroanatomy **Group A**	C: Sensory Systems / Electrophysiology (Möck & staff) – Neuroanatomy **Group B**	Sensory Systems / Electrophysiology (Möck & staff) – Neuroanatomy **Group C**
			C: Fluorescence Microscopy Optics/ (non)Confocal Imaging (Enderlein/Tuskanov) – ENI / teaching lab **Group B**	C: Fluorescence Microscopy Optics/ (non)Confocal Imaging (Enderlein/Tuskanov) – ENI / teaching lab **Group C**	C: Fluorescence Microscopy Optics/ (non)Confocal Imaging (Enderlein/Tuskanov) – ENI / teaching lab **Group A**

W 3	Mon 17 Oct	Tue 18 Oct	Wed 19 Oct	Thu 20 Oct	Fri 21 Oct
09:00-10:30	L: Circadian Clocks (Eichele) – ENI	T: Circadian Clocks (Eichele) – ENI	Presentation of MSc/PhD projects class 2021 – ENI	L: Invertebrate Models: Aplysia, Drosophila (Heinrich) – ENI	L+T: Invertebrate Models: Aplysia, Drosophila (Heinrich) – ENI
10:45-12:15	L: Introduction Electron Microscopy & Tomography (Möbius) – ENI	L: Single Particle Cryo-EM, Cryo Tomography (Busnadiego) – ENI		L: FLIM (Wouters) – ENI	L: EM Data Analysis (Wichmann) – ENI
14:00-18:00	L/C: Histology & Cytology (Chao/Palicz) – ENI	C: EM Sample Preparation (Möbius) – MPI-NAT City Campus **Group A**	C: EM Sample Preparation (Möbius) – MPI-NAT City Campus **Group B**	C: EM Sample Preparation (Möbius) – MPI-NAT City Campus **Group C**	**14:00-15:45** L: Introduction to MRI and MRS (Boretius) – ENI
		C: EM High Pressure Freezing, Optical Stimulation (Wichmann) –BIN **Group B**	C: EM High Pressure Freezing, Optical Stimulation (Wichmann) –BIN **Group C**	C: EM High Pressure Freezing, Optical Stimulation (Wichmann) –BIN **Group A**	Presentations Research Groups – ENI 16:00 Heinrich
		C: EM Sample Freezing, Data Acquisition (Busnadiego) – GZMB **Group C**	C: EM Sample Freezing, Data Acquisition (Busnadiego) – GZMB **Group A**	C: EM Sample Freezing, Data Acquisition (Busnadiego) – GZMB **Group B**	

W 4	Mon 24 Oct	Tue 25 Oct	Wed 26 Oct	Thu 27 Oct	Fri 28 Oct
09:00-10:30	L: MRI I (Dechent/ Schweizer) – ENI	T: MRI I (Memhave) – ENI	L: MRI II (Schweizer/ Dechent) – ENI	**08:30 – 12:30** Scientific Communication 'Oral' (Kluempers) – ENI	**08:30 – 12:30** Scientific Communication 'Oral' (Kluempers) – ENI
11:00-12:30	L+T: Introduction Statistics/ Software Training (Friede/ Leha) – ENI	L+T: Statistics/ Software Training (Friede/ Leha) – Med. Statistics CIP room	L+T: Statistics/ Software Training (Friede /Leha) – Med. Statistics CIP room		
14:00-18:00	SELF STUDY	C: Demo MRI and MRS (Schweizer/Ortiz-Ríos) – DPZ **Group A/B**	C: Demo MRI and MRS (Schweizer/Ortiz-Ríos) – DPZ **Group B/C**	C: Demo MRI and MRS (Schweizer/Ortiz-Ríos) – DPZ **Group C**	**14:00-15:45** T & Short Test: MRI II (Memhave) – ENI
				16:00 – 18:00 C: Demo MRI and MRS (Schweizer/Ortiz-Ríos) – DPZ	SELF STUDY

W 5	Mon 31 Oct	Tue 01 Nov	Wed 02 Nov	Thu 03 Nov	Fri 04 Nov
08:15-10:00	**Holiday (Reformation Day)**	L: Vertebrate Neural Development (Heide) – ENI	T & Short Test: Vertebrate / Primate Brain Development (Heide) – ENI	L: Evolution of the brain & transgenic methods (Bucher) – ENI	T: Arthropod Neural Development (Bucher) – ENI
10:30-12:00		L+T: Statistics/ Software Training (Friede/ Leha) – Med. Statistics CIP room	L+T: Statistics/ Software Training (Friede /Leha) – Med. Statistics CIP room	L+T: Statistics/ Software Training (Friede/ Leha) – Med. Statistics CIP room	T & Short Test: Statistics (Friede/ Leha) – Med. Statistics CIP room
14:00-18:00		**14:00-15:45** L: Primate Brain Development & Organoids (Heide) – ENI	**14:00-15:45** L: Arthropod Neural Development (Bucher) – ENI	14:00-16:00 Presentation of Lab Rotation Projects – ENI	14:00-17:00 Presentation of Lab Rotation Projects – ENI

Block B (M.Neuro.14, M.Neuro.12, M.Neuro.23, M.Neuro.31, M.Neuro.34): Molecular Biology, Neurogenetics and Basic Statistics

W 6	Mon 07 Nov	Tue 08 Nov	Wed 09 Nov	Thu 10 Nov	Fri 11 Nov
08:15-10:00	L: DNA/Genome (Brose) – ENI	T: DNA/Genome (Brose/NN) – ENI	Presentation of Lab Rotation Projects – ENI	L: Transcription/ RNA / Translation (Brose) – ENI	T & Short Test: Transcription/ Translation (Brose/NN) – ENI
10:30-12:00	L+T: Statistics/ Software Training (Friede/ Leha) – Med. Statistics CIP room	L+T: Statistics/ Software Training (Friede/ Leha) – Med. Statistics CIP room	L+T: Statistics/ Software Training (Friede/ Leha) – Med. Statistics CIP room	L+T: Statistics/ Software Training (Friede/ Leha) – Med. Statistics CIP room	T & Short Test: Statistics (Friede/ Leha) – Med. Statistics CIP room
14:00-18:00	SELF STUDY	14:00-15:30 Presentation of Lab Rotation Projects – ENI 2.006	14:00-14:30 Presentation of Lab Rotation Projects– ENI	L/C: Introduction to PYTHON and Practical Course (Clemens) – ENI	C: PYTHON Practical Course (Clemens) – ENI

W 7	Mon 14 Nov	Tue 15 Nov	Wed 16 Nov	Thu 17 Nov	Fri 18 Nov
08:15-10:00	L: Protein Biosynthesis and Structure of Membrane Proteins (R. Jahn) – ENI	T: Protein Biosynthesis (NN) – ENI	T: Genetic Engineering/CRISPR (Wojcik) –online via ZOOM	L: Trafficking (R. Jahn) – ENI	T & Short Test: Trafficking (NN) – ENI
10:30-12:00	L+T: Statistics/ Software Training (Friede/ Leha) – Med. Statistics CIP room	L+T: Statistics/ Software Training (Friede/ Leha) – Med. Statistics CIP room	L+T: Statistics/ Software Training (Friede/ Leha) – Med. Statistics CIP room	L+T: Statistics/ Software Training (Friede/ Leha) – Med. Statistics CIP room	T & Short Test: Statistics (Friede/ Leha) – Med. Statistics CIP room
14:00-18:00	SELF STUDY	**14:00-15:45** L: Genetic Engineering/CRISPR (Wojcik) – ENI	L/C: PCR, plasmids and electrophoresis (Göbbels) – MPI-NAT City Campus **Group B**	L/C: PCR, plasmids and electrophoresis (Göbbels) – MPI-NAT City Campus **Group C**	L/C: PCR, plasmids and electrophoresis (Göbbels) – MPI-NAT City Campus **Group A**
		SELF STUDY	L/C: Western Blotting and protein analysis (Wojcik) – MPI-NAT City Campus **Group C**	L/C: Western Blotting and protein analysis (Wojcik) – MPI-NAT City Campus **Group A**	L/C: Western Blotting and protein analysis (Wojcik) – MPI-NAT City Campus **Group B**
			L/C: Protein purification and chromatography (Ewers) – MPI-NAT City Campus **Group A**	L/C: Protein purification and chromatography (Ewers) – MPI-NAT City Campus **Group B**	L/C: Protein purification and chromatography (Ewers) – MPI-NAT City Campus **Group C**

Course Week (21.– 25.11.): Schwann-Schleiden Research Centre, Julia-Lermontowa-Weg 3 (next to the ENI)

W 8	Mon 21 Nov	Tue 22 Nov	Wed 23 Nov	Thu 24 Nov	Fri 25 Nov
08:15-18:00	**8:15-09:45** L: Arthropod Muscle Systems (Heinrich)	**1st meeting Monday, 21st Nov, 8:15h seminar room 4th floor** For the 4 practical courses, 4 groups of 5-6 students will be formed for each topic/course day; groups will rotate through all 4 courses, such that each day each group performs a different course. Details will be announced in a scriptum that will be made available before the start of the course week.			
	10:00-11:30 L: Action potentials in invertebrate giant interneurons (Hehlert)	C: Visual sense of arthropods (Heinrich)			
	13:00-14:30 L: Visual Sense of Arthropods (Heinrich)	C: Physiology of locust leg muscles (Cillov)			
	14:45-16:15 L: Single Neuron Recording (Ferber)	C: Recording of compound action potentials from earthworm giant interneurons (Hehlert)			
		C: Single Neuron Recording (Ferber, NN)			

W 9	Mon 28 Nov	Tue 29 Nov	Wed 30 Nov	Thu 01 Dec	Fri 02 Dec
08:15-10:00	L: Microglia/Astrocytes (Saher) – MPI-NAT City Campus	T: Glia (Goebbels) – MPI-NAT City Campus	Good Scientific Practice (R. Jahn) – MPI-NAT City Campus	T: Neurogenetics (NN) – MPI-NAT City Campus	T & Short Test: Mouse Genetics (Goebbels) – MPI-NAT City Campus
10:15-12:00	L: Oligodendrocytes & Schwann Cells (Goebbels) - MPI-NAT City Campus	L: Neurogenetics (Saher) – MPI-NAT City Campus		L: Introduction to Mouse Genetics (Goebbels) – MPI-NAT City Campus	SELF STUDY
14:00-18:00	**14:00-15:45** L: Introduction to Neuroproteomics (O. Jahn) – MPI-NAT City Campus	**14:00-15:45** L: Introduction Cell Culture Methods (Rhee) – MPI-NAT City Campus	C: Introduction to Cell Culture Methods (Rhee) – MPI-NAT City Campus **Group A**	C: Introduction to Cell Culture Methods (Rhee) – MPI-NAT City Campus **Group B**	C: Introduction to Cell Culture Methods (Rhee) – MPI-NAT City Campus **Group C**
	SELF STUDY	**16:00-17:45** L/C: Live-Cell Imaging (Rizzoli) – MPI-NAT City Campus	C: Live-Cell Imaging (Rizzoli/Gomes) – Physiology 2.124 **Group B**	C: Live-Cell Imaging (Rizzoli/Gomes) – Physiology 2.124 **Group C**	C: Live-Cell Imaging (Rizzoli/Gomes) – Physiology 2.124 **Group A**
			C: Neuroproteomics (O. Jahn) – MPI-NAT City Campus **Group C**	C: Neuroproteomics (O. Jahn) – MPI-NAT City Campus **Group A**	C: Neuroproteomics (O. Jahn) – MPI-NAT City Campus **Group B**

W 10	Mon 05 Dec	Tue 06 Dec	Wed 07 Dec	Thu 08 Dec	Fri 09 Dec
08:15-10:00	L: Neuroimmunology (Flügel/Lühder) – BIN	T: Neuroimmunology (Lodygin/Odoardi) – BIN	**09:00-12:00** C: PYTHON Data Analysis (Clemens – ENI	L: Neuroimmunology (Flügel/Lühder) – BIN	T & Short Test: Neuroimmunology (Lodygin/Odoardi) – BIN
10:45-12:15	L/C: Introduction to Quantitative Methods in Psychophysics (Pooresmaeili) – ENI	L/C: Introduction to Psychophysiological Methods (Schacht, Kulke) – Online via Zoom		*C: PYTHON Practical Course (Clemens) – Online via Zoom (optional)*	*C: PYTHON Practical Course (Clemens) – Online via Zoom (optional)*
14:00-18:00	C: Invasive electro-physiology in humans (Schwiedrzik) – Online via Zoom **Group A/C**	C: Invasive electrophysiology in humans (Schwiedrzik) – Online via Zoom **Group B/C**	C: Psychophysiological Methods (Schacht, Kulke) – GEMI **Group B**	C: Psychophysiological Methods (Schacht, Kulke) – GEMI **Group A**	C: Psychophysiological Methods (Schacht, Kulke) – GEMI **Group C**
			C: Quantitative Methods in Decision Making Studies (Pooresmaeili) – ENI **Group A**	C: Quantitative Methods in Decision Making Studies (Pooresmaeili) – ENI **Group C**	C: Quantitative Methods in Decision Making Studies (Pooresmaeili) – ENI **Group B**

W 11	Mon 12 Dec	Tue 13 Dec	Wed 14 Dec	Thu 15 Dec	Fri 16 Dec
08:15-10:00	L: Signal Transduction I (Kovtun) – ENI	T: Signal Transduction (Kovtun/NN) – ENI	T/C: Electrophysiological Techniques (Torres/Rojas) – ENI	L: Signal Transduction II (Kovtun) – ENI	T & Short Test: Signal Transduction (Kovtun/NN) – ENI
10:15-12:00	SELF STUDY	L/C: Electrophysiological Techniques/ Amplifiers (Taschenberger) – ENI	L: Introduction Patch Clamp Techniques (Schlüter) – ENI	L: Neurophysiology of Plasticity (Schlüter) – ENI	SELF STUDY
14:00-18:00	L/C: Introduction to the Basics of Electronics (Stühmer) – ENI	C: PYTHON Data Analysis and Final Discussion (Clemens) – ENI 2.006	C: Demo Patch Clamp Techniques (Schlüter) – Psychiatry UMG **Group A**	C: Demo Patch Clamp Techniques (Schlüter) – Psychiatry UMG **Group C**	C: Demo Patch Clamp Techniques (Schlüter) – Psychiatry UMG **Group B**
			C: Oocyte Voltage Clamp (Pardo) – ENI **Group B**	C: Oocyte Voltage Clamp (Pardo)– ENI **Group A**	C: Oocyte Voltage Clamp (Pardo)– ENI **Group C**

Christmas break 17.12.2022 – 03.01.2023

Block C (M.Neuro.14, M.Neuro.22, M.Neuro.32): Physiology

W 13	Mon 02 Jan	Tue 03 Jan	Wed 04 Jan	Thu 05 Jan	Fri 06 Jan
08:15-10:00	Christmas Break	Christmas Break	L: Introduction Membrane Physiology I (Pardo) – ENI	T: Membrane Physiology I (Pardo/NN) – ENI	T & Short Test: Membrane Physiology II (Pardo/NN) – ENI
10:15-12:00			SELF-STUDY	L: Introduction Membrane Physiology II (Pardo) – ENI	Graphics Workshop Part I (Dean) – ENI
13:00-17:30			SELF STUDY	Scientific Communication 'Written/ Graphics' (Dean) – ENI	Graphics Workshop Part II (Dean) – ENI

Start of lab rotations, LR1 through LR3
Students and supervisors are free to schedule the lab rotations individually within the given time frame.
The total number of hours should not exceed 26 hours per week!

W 14	Mon 09 Jan	Tue 10 Jan	Wed 11 Jan	Thu 12 Jan	Fri 13 Jan
08:15-10:00	L: Membrane Physiology & Ion Channels (Pardo) – ENI	T: Membrane Physiology & Ion Channels (Pardo/NN) – ENI	L: Membrane Physiology & Ion Channels (Pardo) – ENI	T & Short Test: Membrane Physiology & Ion Channels (Pardo/NN) – ENI	L: Membrane Physiology & Ion Channels (Pardo) – ENI
11:00-18:00	**LR 1**	**LR 1**	**LR 1**	**LR 1**	**LR 1**

W 15	Mon 16 Jan	Tue 17 Jan	Wed 18 Jan	Thu 19 Jan	Fri 20 Jan
08:15-10:00	T: Membrane Physiology & Ion Channels (Pardo/NN) – ENI	L: Membrane Physiology & Ion Channels (Pardo) – ENI	L/C: Introduction Animal Experiments (Stilling) – lecture hall MPI-NAT City Campus Neuro / Molbio	T & Short Test: Membrane Physiology & Ion Channels (Pardo/NN) – ENI	L: Synaptic Transmission & Integration (Rizzoli) – ENI
10:15-13:00	**11:00-18:00 LR 1**	~~**10:30-11:00** (not mandatory) Exam Animal Certificate (Silter) – ENI~~	~~(not mandatory) Experimental Animal Course (Silter/NN) – UMG (room tbc)~~	~~(not mandatory) Experimental Animal Course (Silter/NN) – UMG (room tbc)~~	~~(not mandatory) Experimental Animal Course (Silter/NN) – UMG (room tbc)~~
13:30-18:00		**LR 1**	**LR 1**	**LR 1**	**LR 1**

W 16	Mon 23 Jan	Tue 24 Jan	Wed 25 Jan	Thu 26 Jan	Fri 27 Jan
08:15-10:00	L: Synaptic Transmission & Integration (Rizzoli) – ENI	T: Synaptic Transmission & Integration (Krah/Bogaciu) – ENI	L: Synaptic Transmission & Integration (Rizzoli) – ENI	L: Synaptic Transmission & Integration (Rizzoli) – ENI	T & Short Test: Synaptic Transmission & Integration (Krah/Bogaciu) – ENI
14:00-18:00	**LR 1**	**LR 1**	**LR 1**	**LR 1**	**LR 1**

Block D (M.Neuro.13, M.Neuro.24, M.Neuro.25): Modelling, Autonomous Nervous System, Pharmacology

W 17	Mon 30 Jan	Tue 31 Jan	Wed 01 Feb	Thu 02 Feb	Fri 03 Feb
08:15-10:00	L: Computational Neuroscience - Neural Encoding and Decoding (Clemens) – ENI	**08:15 – 12:00** T+C: Computational Neuroscience - Neural Encoding and Decoding (Clemens/NN) – ENI	**08:15 – 12:00** T+C: Computational Neuroscience - Neural Encoding and Decoding (Clemens/NN) – ENI	**08:15 – 12:00** T+C: Computational Neuroscience - Neural Encoding and Decoding (Clemens/NN) – EN	T & Short Test: Computational Neuroscience - Neural Encoding and Decoding (Clemens/NN) – ENI
11:00-18:00	**LR 1**	**13:00 – 18:00 LR 1**	**13:00 – 18:00 LR 1**	**13:00 – 18:00 LR 1**	**LR 1**

W 18	Mon 06 Feb	Tue 07 Feb	Wed 08 Feb	Thu 09 Feb	Fri 10 Feb
08:15-10:00	L: Autonomous Nervous System (Wouters) – ENI	T: Autonomous Nervous System (Wouters/NN) – ENI	L: Neuronal Control of Breathing and Circulation I (Wouters) – ENI	L: Neuronal Control of Breathing and Circulation II (Wouters) – ENI	T & Short Test: Autonomous Nervous System/Neuronal Control of Breathing and Circulation (Wouters/NN) – ENI
11:00-18:00	**LR 1**	**LR 1**	**LR 1**	**LR 1**	**LR 1**

W 19	Mon 13 Feb	Tue 14 Feb	Wed 15 Feb	Thu 16 Feb	Fri 17 Feb
08:15-10:00	L: Neuroendocrinology I (Antal) – ENI	L: Neuroendocrinology II (Antal) – ENI	SELF STUDY	L: Neuroendocrinology III (Antal) – ENI	T & Short Test: Neuroendocrinology (Antal/NN) – ENI
11:00-18:00	**LR 1**	**LR 1**	**LR 1**	**LR 1**	**LR 1**

W 20	Mon 20 Feb	Tue 21 Feb	Wed 22 Feb	Thu 23 Feb	Fri 24 Feb
08:15-10:00	L: Neuropharmacology I (Sereda) – ENI	**08:15 – 12:15** Workshop Time- and Selfmanagement (Magyarosi) – Online via Zoom **Group A/B**	T: Neuropharmacology I (Ewers) – ENI	L: Neuropharmacology II (Sereda) – ENI	T & Short Test: Neuropharmacology II (Sereda/Ewers) – ENI
11:00-18:00	**LR 1**	**13:30 – 17:30** Workshop Time- and Selfmanagement (Magyarosi) – Online via Zoom **Group B/C**	**LR 1**	**LR 1**	**LR 1**

W 21	Mon 27 Feb	Tue 28 Feb	Wed 01 Mar	Thu 02 Mar	Fri 03 Mar
08:15-10:00	L: Behavioral Analysis (Treue) – ENI	T: Behavioral Analysis (NN) – ENI	SELF STUDY	L: Principles of Behavioral Analysis (Ehrenreich) – MPI-NAT City Campus Lecture Hall	Demo: Behavioral Analysis (Ehrenreich) – MPI-NAT City Campus Lecture Hall
10:30 – 13:30	C: Behavioral Analysis (NN) – DPZ **Group A**	C: Behavioral Analysis (NN) – DPZ **Group B**	C: Behavioral Analysis (NN) – DPZ **Group C**	**LR 1**	**LR 1**
14:00-18:00	**LR 1**	**LR 1**	**LR 1**		

Block E (M.Neuro.15, M.Neuro.25, M.Neuro.32): Sensory and Motor Systems

W 22	Mon 06 Mar	Tue 07 Mar	Thu 08 Mar	Thu 09 Mar	Fri 10 Mar
08:15-10:00	L: General Sensory Physiology (Kusch) – ENI	T: General Sensory Physiology (Kusch /NN) – ENI	SELF STUDY	L: Somatic Senses (Moser) – ENI	T & Short Test: Somatic Senses (Moser /NN) – ENI
11:00-18:00	**LR 2**	**LR 2**	**LR 2**	**LR 2**	**LR 2**

W 23	Mon 13 Mar	Tue 14 Mar	Wed 15 Mar	Thu 16 Mar	Fri 17 Mar
08:15-10:00	**08:15 – 12:15** Workshop Time- and Selfmanagement (Magyarosi) – Online via Zoom **Group B/C**	L: Audition (Pangrsic) – ENI	T: Auditory Physiology (Pangrsic/J. Neef) – ENI	L: Clinical Sensory Physiology (Moser) – UMG InnerEarLab (tbc)	T & Short Test: Clinical Sensory Physiology (Moser/J. Neef) – UMG InnerEarLab (tbc)
11:00-18:00	**13:30 – 17:30** Workshop Time- and Selfmanagement (Magyarosi) – Online via Zoom **Group A/B**	**LR 2**	**LR 2**	**LR 2**	**10:15 – 12:00** C/Practical: Clinical Sensory Physiology (Moser/J. Neef/NN) – UMG InnerEarLab **LR 2**

W 24	Mon 20 Mar	Tue 21 Mar	Wed 22 Mar	Thu 23 Mar	Fri 24 Mar
08:15-10:00	L: Vision (Gollisch) – ENI	T & Short Test: Vision (Gollisch/NN) – ENI	LR1 Seminar (Fischer): Chakraborty, Promet, Bukina – ENI	SELF STUDY/NWG	SELF STUDY/NWG
11:00-18:00	**LR 2**	**LR 2**	**LR 2**	**LR 2**	**LR 2**

W 25	Mon 27 Mar	Tue 28 Mar	Wed 29 Mar	Thu 30 Mar	Fri 31 Mar
08:15-10:00	L: Muscle & Spinal Motor Systems I (Hülsmann/Dibaj) – ENI	L: Muscle & Spinal Motor Systems II (Hülsmann/Dibaj) – ENI	**08:15-10:00** LR1 Seminar (Carter): Ong, Cremer, Fiedler – ENI	T & Short Test: Muscle & Spinal Motor Systems (Hülsmann/Dibaj) – ENI	**8:15-12:00** C/Practical: Muscle & Spinal Motor Systems (Hülsmann/Dibaj) – Physiology
11:00-18:00	**LR 2**	**LR 2**	**10:15-12:00** LR1 Seminar (Wolf): Akhmetali, Kavaklioglu, Naderi – ENI **LR 2**	**LR 2**	**LR 2**

Easter break 01.04. – 10.04.2023

W 25	Mon 10 Apr	Tue 11 Apr	Wed 12 Apr	Thu 13 Apr	Fri 14 Apr
08:15-10:00		SELF STUDY	**08:15-10:00** LR1 Seminar (Bayer): Evdokimova, Sose, Trpchevska – ENI	L: Chemosensation (Fiala) – ENI	T & Short Test: Chemosensation (Fiala/NN) – ENI
11:00-18:00	**HOLIDAY** **(Easter Monday)**	**LR 2**	**10:15-12:00** LR1 Seminar (Busnadiego): Esch, Konac, Ramakrishna – ENI **13:00-19:00** Practical/ Demo: Functional Topography of the Human Brain (Chao) – meeting point: entrance hall Anatomy	**LR 2**	**LR 2**

W 26	Mon 17 Apr	Tue 18 Apr	Wed 19 Apr	Thu 20 Apr	Fri 21 Apr
08:15-10:00	L: Higher Vision (Treue) – ENI	T: Higher Vision (Calapai) – ENI	**08:15-10:00** LR1 Seminar (Göpfert): Banerjee, Provost, Trebilcock – ENI	L: Attention (Treue) – ENI	T & Short Test: Higher Vision/ Attention (Calapai) – ENI
11:00-18:00	**LR2**	**LR2**	**10:15-12:00** LR1 Seminar (Kagan): Chen, Nadig, Taghavi – ENI **LR 2**	**LR 2**	**LR 2**

Block F (M.Neuro.16, M.Neuro.25, M.Neuro.32): Clinical Neurosciences and Higher Brain Functions

W 27	Mon 24 Apr	Tue 25 Apr	Wed 26 Apr	Thu 27 Apr	Fri 28 Apr
08:15-10:00	L: Functional Neuroanatomy (Bähr) – ENI	**10:15-12:00** L: Stroke (Maier) – ENI	**10:15-12:00** T & Short Test: Functional Neuroanatomy/ Stroke (Maier/NN) – ENI	L: Neuromuscular Disorders / Motoneuron Disorders (Zschüntzsch) – ENI	T & Short Test: Neuromuscular Disorders / Motoneuron Disorders (Zschüntzsch) – ENI
11:00-18:00	**LR 2**	**13:00-18:00 LR 2**	**13:00-18:00 LR 2**	**LR 2**	**LR 2**

W 28	Mon 01 May	Tue 02 May	Wed 03 May	Thu 04 May	Fri 05 May
08:15-10:00	**Holiday (May Day)**	L: Epilepsy (Focke) – ENI	**08:15-10:45** T & Practical: EEG (Focke) – UMG (room tbc)	L: Central Motor Systems (Sommer) – ENI	T & Short Test: Central Motor Systems/ Epilepsy (Focke) – ENI
11:00-18:00		**LR 2**	**LR 2**	**LR 2**	**LR 2**

W 29	Mon 08 May	Tue 09 May	Wed 10 May	Thu 11 May	Fri 12 May
08:15-10:00	L: Mechanisms of Learning & Memory: Hippocampus (Fischer) – ENI	T: Mechanisms of Memory & Learning (Fischer/NN) – ENI	SELF STUDY	L: Memory Loss/ Neurodegeneration (Fischer) - ENI	T & Short Test: Neurodegeneration (Fischer/NN) – ENI
11:00-18:00	**LR 3**	**LR 3**	**LR 3**	**LR 3**	**LR 3**

W 30	Mon 15 May	Tue 16May	Wed 17 May	Thu 18 May	Fri 19 May
08:15-10:00	L: Learning & Memory: Invertebrate Models (Fiala) - ENI	T: Learning & Memory: Invertebrate Models (Fiala) – ENI	SELF STUDY	**Holiday (Ascension Day)**	SELF STUDY
11:00-18:00	**LR 3**	**LR 3**	**LR 3**		**LR 3**

W 31	Mon 22 May	Tue 23 May	Wed 24 May	Thu 25 May	Fri 26 May
08:15-10:00	L: Neurodegeneration I (Bayer) – ENI	T: Neurodegeneration I (Bayer/Bouter) – ENI	LR2 Seminar (Busnadiego): NN, NN, NN – ENI	L: Neurodegeneration II (Bayer) – ENI	T & Short Test: Neuro-degeneration I+II (Bayer/Bouter) – ENI
10:15-12:15	**10:00-11:30** Plenary Meeting for Counselling Sessions (Barth/ Burkhardt) – ENI	Personal Counselling Session (Barth, individual appointments) – ENI 0.033	Personal Counselling Session (Barth, individual appointments) – ENI 0.033	Personal Counselling Session (Barth, individual appointments) – ENI 0.033	Personal Counselling Session (Barth, individual appointments) – ENI 0.033
13:00-18:00	**LR 3**	**LR 3**	**LR 3**	**LR 3**	**LR 3**

W 32	Mon 29 May	Tue 30 May	Wed 31 May	Thu 01 June	Fri 02 June
08:15-10:00	**HOLIDAY (Whit Monday)**	L: Sleep (Owald) - ENI	LR2 Seminar (Bayer): NN, NN, NN – ENI	L: Rare Cognitive Diseases: Overview and selected molecular pathomechanisms (Kraetzner, Dibaj) - ENI	T: Rare Cognitive Diseases: Overview and selected molecular pathomechanisms (Kraetzner, Dibaj) – ENI
13:00-18:00		**LR 3**	**10:15-12:00** LR2 Seminar (Brose): NN, NN, NN – ENI **LR 3**	**LR 3**	**LR 3**

W 33	Mon 05 June	Tue 06 June	Wed 07 June	Thu 08 June	Fri 09 June
08:15-10:00	L/T: Schizophrenia I & II – interactive lecture (Ehrenreich) – MPI-NAT City Campus Lecture Hall	SELF STUDY	LR2 Seminar (Göpfert): NN, NN, NN – ENI	SELF STUDY	L/T: Depression (Ehrenreich) – MPI-NAT City Campus Lecture Hall
11:00-18:00	**LR 3**	**LR 3**	**10:15-12:00** LR2 Seminar (Fischer): NN, NN, NN – ENI **LR 3**	**LR 3**	**LR 3**

W 34	Mon 12 June	Tue 13June	Wed 14 June	Thu 15 June	Fri 16 June
08:15-10:00	L: Higher Cognitive Functions I (Wilke) – ENI	T: Higher Cognitive Functions I (Wilke/NN) – ENI	LR2 Seminar (Wolf): NN, NN, NN – ENI	L: Higher Cognitive Functions II (Wilke) – ENI	T & Short Test: Higher Cognitive Functions II (Wilke/NN) – ENI
11:00-18:00	**LR 3**	**LR 3**	**10:15-12:00** LR2 Seminar (Carter): NN, NN, NN – ENI **LR 3**	**LR 3**	**LR 3**

Block G (M.Neuro.32, M.Neuro.25): Specialization Seminars and Tutorials

W 35	Mon 19 June	Tue 20 June	Wed 21 June	Thu 22 June	Fri 23 June
08:15-10:00	To be determined, e.g. *L+T: Limits of Cognitive Neuroscience (Geurten)*	To be determined, e.g. *L: Brain Machine Interface / Neuroprosthetics (Gail)*	To be determined, e.g. *L: Computational Neuroscience and Circuit and Systems Modelling (Jaramillo)*	To be determined, e.g. *L: Future and Frontiers in Synapse and Plasticity Research (Rizzoli)*	To be determined, e.g. *L: Evidence-Based Phytopharmacology to Treat Diseases of the Nervous System (Dietz)*
11:00-18:00	**LR 3**	**LR 3**	**LR 3**	**LR 3**	**LR 3**

W 35	Mon 26 June	Tue 27 June	Wed 28 June	Thu 29 June	Fri 30 June
08:15-10:00	To be determined, e.g. *L: Calcium in Synaptic Release (Neher)*	To be determined, e.g. *L: Brain Organoids and Neurodevelopment (Zafeiriou)*	To be determined, e.g. *L+T: Neuronal Plasticity (Löwel)*	To be determined, e.g. *L+T: Optogenetics (Moser)*	To be determined, e.g. *L: How can theoretical neuroscience guide experimentalists? (Wolf)*
11:00-18:00	**LR 3**	**LR 3**	**LR 3**	**LR 3**	**LR 3**

W 36	Mon 03 July	Tue 04 July	Wed 05 July	Thu 06 July	Fri 07 July
08:15-10:00	To be determined	To be determined	To be determined	To be determined	How to make it stick? Talking | Teaching | Learning (Thielsch) – ENI
10:30-12:15	To be determined	To be determined	To be determined	L: Ideas of Mind in Philosophy, Psychology, and the Neurosciences (Quigley) – ENI	To be determined
14:00-18:00	To be determined	To be determined	To be determined	To be determined	To be determined

General information about locations:

L: lecture, T: tutorial*, C: methods course*

Rooms:

Anatomy:	Institute of Anatomy (1st floor seminar rooms, histology room, large course room) Kreuzbergring 36, Dept. Dresbach/ Staiger
BIN:	Institute for Biostructural Imaging of Neurodegeneration (3rd floor conference room) von-Sieboldt-Str. 3a
DPZ:	German Primate Center, Kellnerweg 4
ENI:	Grisebachstr. 5, seminar room 0.055/0.056 (ground floor)
ENI 2.006:	Grisebachstr. 5, seminar room 2.006 (second floor)
GEMI:	Georg-Elias-Müller-Institut, Goßlerstr. 14 (Office Schacht 1.105)
GZMB:	Goettingen Centre for Molecular Biology (GZMB), Justus-von-Liebig-Weg 11, 37077 Göttingen
Med. Statistics:	Department of Medical Statistics (Prof. Friede, ground floor) Humboldtallee 32
MPI-NAT City Campus:	Max Planck Institute for Multidisciplinary Sciences – City Campus (lecture hall or laboratories) Hermann-Rein-Straße 3
Neuroanatomy:	Kreuzbergring 40 (seminar rooms, Dept. Staiger, Möck)
Physiology:	Institute for Physiology (seminar room 2.124) Humboldtallee 23
Psychiatry UMG:	University Medical Center Göttingen, Dept. Psychiatry and Psychotherapy Von-Siebold-Str. 5, room no 01 E128 (contact the gatekeeper for entry)
Schwann-Schleiden/: Zoology	Schwann-Schleiden Research Centre (seminar room 4th floor) Julia-Lermontowa-Weg 3
UMG (Depts.):	University Medical Center Göttingen Robert-Koch-Str. 40

*for some **tutorials** and **methods courses** the class may be divided into 3 groups:

Group A:	Mels Akhmetali, Dyutika Banerjee, Yixuan Chen, Maren Cremer, Natalia Evdokimova, Efsun Kavaklioglu, Erinne Ong
Group B:	Evgeniia Bukina, Klara Esch, Ahsen Konac, Amir Naderi, Vismitha Nadig, Lisii Promet, Abigail Trebilcock
Group C:	Sukanya Chabraborty, Yasmin Fiedler, Micah Provost, Yashas Ramakrishna, Leijla Sose, Tarannomsadat Taghavi, Ana Trpchevska